

## **SYSTEM AND METHOD FOR ACCESSING A MULTI-LINE GATEWAY USING CORDLESS TELEPHONY TERMINALS**

### **Abstract**

According to the present invention, simultaneous call-handling and data transfer is achieved between a terminal and a multi-line gateway in a cordless telephony environment. Multiple logical channels are established and used as signaling resources for calls on the multiple lines, and also for data transfers between the gateway and terminal. As a result, terminals can handle multiple calls on different lines and at the same time access data stored at the gateway. According to a first aspect of the present invention, two or more logical channels are established over an asynchronous channel between a terminal and a gateway. These logical channels are assigned to calls that are set-up between the terminal and gateway. When used as a signaling resource, the logical channels allow the terminal to distinguish between signaling information for multiple simultaneous calls. The calls are associated with another speech or data channel that will bear the voice signal, referred to herein as a bearer channel. According to a second aspect of the present invention, a logical channel is also established over an asynchronous channel to handle data transfers between the gateway and terminal. Using this logical channel, the terminal can access data stored at the gateway without disrupting any ongoing calls.

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